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The height analysis of Pass 17 and 18 of SL-3 has been completed. Since Pass 17 passed over Iowa, Lake Michigan and Lake Huron, and pass 18 over Texas where large more or less uniform areas were observed, reliable range tracker operation was achieved, with practically no loss of range lock. Height deviations appear to be due to off-nadir pointing. A height increase of about 10 m between Lake Michigan and Lake Huron appear to be due to off-nadir pointing of  $1/2^\circ$  over Lake Michigan, which was increased to  $1^\circ$  due to sub-mode change ( $S^2_M = 2, 1/2^\circ$  pitch) over Lake Huron.

A refined analysis of received power as a function of the observed areas and conversion to equivalent radar cross sections were initiated.

During the next reporting period this effort will be continued and combined with waveform analysis to characterize more reliably the radar return from different areas.